NTeQ Lesson Plan

**Lesson Title**: Count to 100 by 10’s **Subject Area**: Math

**Grade Level**: Kindergarten

**Lesson Summary**

For this activity the students will investigate how to count to 100 by 10’s. Students will visit centers to explore the numbers and process through the use of visuals, manipulatives, and music. After completing all 5 centers, I will have each group present what they learned at their last center.

NOTE: We have already been counting by 10s during Calendar Time for a week, so they have been introduced to the process and patterning already.

**Learning Objectives**

By the end of this lesson, students will be able to count to 100 by 10’s with or without the help materials (visual, music, or manipulatives).

**Standards**

Technology:

* NETS.1.a Apply existing knowledge to generate new ideas, products, or processes
* NETS.2.d Contribute to project teams to produce original works or solve problems
* NETS.3.d Process data and report results
* NETS.4.c Collect and analyze data to make informed decisions

National:

* CCSS.Math.Content.K.CC.A.1 Count to 100 by tens

State:

* Show-MeStandard.Mathematics.1 Students in Missouri public schools will acquire a solid foundation which includes knowledge of number sense and the application of these operations.

**Materials**

* Center 1: Tub of 130 unifix cubes, paper, and pencils
* Center 2: 20 printed 100’s Charts, 4 highlighters
* Center 3: 20 sheets of lined paper, 4 pencils, 4 iPads open to the Note Application
* Center 4: Smart Board, Smart Notebook activity, foot stools (height assistance)
* Center 5: 4 iPads logged onto www.schooltube.com and specific videos and headphones
* Assessment: Class list and index cards with 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 written

**Problem**

How do you get to 100 while counting by 10s?

**Research and Analysis (includes student activities before, during, and after technology and computer functions)**

Throughout this lesson learning teams of 4 students will rotate centers exploring the numbers and process of counting from 10-100 by 10s. Each center will be 8-10 minutes long, depending on the student’s needs. The center activities will include:

1. Unifix Cubes: Students will work together to first link cubes in a line of 10 cubes each. I will tell them to get to 100 they will need to make more than 8 lines of cubes, but fewer than 13 lines. I will provide paper and pencil in case they need it. Once they have figured out how many lines of cubes it takes they will share their answer with me.
2. 100’s Chart: Students will receive a chart with numbers 1-100 listed (10 rows, 10 columns, Row 1: 1-10, Row 2: 11-20,...Row 10: 91-100). Each student will use a highlighter to color in the boxes for the numbers said while counting by 10’s (10, 20, 30, 40, 50, 60, 70, 80, 90, 100).
3. Write and Type: Students will view a 100’s Chart with the 10’s highlighted. They will then write with pencil and paper the numbers (10, 20, 30, 40, 50, 60, 70, 80, 90, 100) and then type them in the Notes Application on their iPad.
4. Ordering Numbers on Smart Board: I will have an activity created through Smart Notebook on the Smart Board with 10 boxes and one number inside each box. Students will move these boxes to put the numbers in order it takes to count to 100 by 10.
5. Music: Students will listen to two songs/videos that teach counting to 100 by 10’s. They will access these videos using their iPads and headphones. They are both on SchoolTube: [Count By Tens Song](http://www.schooltube.com/video/11f26f6225ab460f3c97/Counting%20By%20Tens%20Song) and [Climbing Up This Mountain- Counting by 10's to 100 Song](http://www.schooltube.com/video/b9eab96ad2db9b06c84c/Climbing%20Up%20This%20Mountain-%20Counting%20by%2010's%20to%20100%20Song).

NOTE: Students may listen to one or both videos, more than once.

**Results Presentation**

Each group will present what they learned at their final center. Thus, everyone is presenting the same result, just in a different way.

**Supporting Activities**

I want to keep this information in my students little minds because it is a building block for addition, subtraction, multiplication, division, money counting, etc. Therefore, we will continue to practice this skill.

Continued practice methods:

* Counting by 10’s during Calendar Time.
* Counting dimes.
* Instead of counting to 10 for the students to be ready or complete a task, count to 100 by 10’s.
* Integrating these centers again into math instruction.

**Assessment**

Since the curriculum calls for kindergartners to be able to rote count by 10’s to 100, I will call students up to my desk and have them individually count (in a speaking voice or singing voice) to 100 by 10’s. I will also ask the numbers in order when given the numbers written on individual cards. My goal for after this activity is for them to get 80% or higher on these two assessments. If the students accomplish this goal, I will know they are well on their way to mastering the process. If they do not score this high, I will go back, do re-teaching lessons, and assess again.

**Additional Materials**

[**Tip Model Auditory Learner**](file:///C:\Users\Michelle\Documents\University%20of%20Phoenix\Week%206\Tip%20Model%20Auditory%20Learner.docx)

[**Tip Model Kinesthetic Learner**](file:///C:\Users\Michelle\Documents\University%20of%20Phoenix\Week%206\Tip%20Model%20Kinesthetic%20Learner.docx)

[**Tip Model Visual Learner**](file:///C:\Users\Michelle\Documents\University%20of%20Phoenix\Week%206\Tip%20Model%20Visual%20Learner.docx)

Sources are cited on the following page.

Explanations of how these lesson plans meets each group of learners needs is explained throughout the lessons.

Wiki link is located at the top of this document.

**Citations**

Common Core State Standards Initiative. (2012). Mathematics>>Kindergarten>>Counting & Cardinality. Retrieved from http://www.corestandards.org/Math/Content/K/CC

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Havefunteaching. (2011, April 5). Counting by Tens Song [Video file]. Retrieved from SCHOOLTUBE website: http://www.schooltube.com/video/11f26f6225ab460f3c97/Counting%20By%20Tens%2 0Song

lesleyfleenor. (2010, September 1). Climbing Up This Mountain- Counting by 10's to 100 Song [Video file]. Retrieved from SCHOOLTUBE website: http://www.schooltube.com/video/b9eab96ad2db9b06c84c/Climbing%20Up%20This% 20Mountain-%20Counting%20by%2010's%20to%20100%20Song

The Show-Me Standards. (2009). Retrieved from http://dese.mo.gov/standards/documents/Show\_Me\_Standards\_Placemat.pdf